

**ADDENDUM #1
TO SPEC. 03-301**

**MASTER LOGGER RECORDER SYSTEM FOR THE
Animal Control Division of the
Lincoln Lancaster County Health Department**

Addendum #1 to Spec. 03-301 for the Master Logger Recorder System for Animal Control Division of the Lincoln Lancaster County Health Department, bids scheduled to be opened on Wednesday, December 3, 2003 at 12:00 noon.

Below are questions that have been asked for the above referenced proposal and their answers.

Question No. 1

What is the manufacturer and model number of the phone switch being used by Animal Control?

Animal Control and, in fact, most of the City of Lincoln contracts with the local phone company for Centrex type phone system. The switch if there is such a thing is maintained by Alltel and they provide most departments with Nortel meridian desktop phones. I believe the Meridian phones are sort of an analog and digital hybrid. We are able to bridge across the pairs of these phones and monitor a conversation. However, all of the signaling, including dialing out, is done in some out-of-band technique.

Question No. 2

Is the phone switch located at Animal Control?

See response to #1.

Question No. 3

Exactly how many phone sets (positions) are to be recorded initially?

Initially, Animal Control needs to be able to record their 4 answering positions.

Question No. 4

What is the model number of the phones to be recorded in No. 3 above?

They are a Nortel Meridian deskset. The one at my desk is a NT4X35. The one they have at Animal Control should be similar.

Question No. 5

What is the distance from the phone switch to the furthest set to be recorded?

See response to #1.

Question No. 6

It is mentioned that the radio system is an EDACS system. Is the radio switch (IMC) located at Animal Control?

No, the switch is located about 1-2 miles away in the City and County Hall of Justice. We are using a VoicePrint Logging recorder for almost all of the public-safety audio in the Hall of Justice. We had discussed the possibility of using our VoicePrint server to record the audio for Animal Control. While I would have no trouble recording the radio audio at the Hall of Justice, we lack an economical means of back-hauling the audio from the phones at Animal Control to my VoicePrint Server. The decision was made to pursue a separate voice logging solution for Animal Control.

Question No. 7

To record EDACS audio and data from the IMC as requested, the EDACS system must have a T1 card set and TRIM PC installed by MA-Com to make the radio system compatible. Is this in place?

The TRIM PC and T1 card is one means of getting the audio from the EDACS system. It is, however, not the only means. We use the comparatively older LRIM means of mapping audio from EDACS to our VoicePrint recorder. This is all trivial however because the IMC switch is not collocated with Animal Control. For this bidding opportunity, you will be bridging across a tone-control line used to control the radio that is installed in Animal Control's headquarters.

Question No. 8

If the MA-Com upgrades for recording are in place, and the IMC is at Animal Control, how many voice channels are on the system?

See response to questions 6 and 7.

Question No. 9

If the IMC is not at Animal Control and you still want to record the audio and data, can the recorder be placed where the switch resides and provide audio back to Animal Control over a WAN?

See response to questions 6 and 7.

Question No. 10

If it is not desired to implement a complete MA-Com radio recording system, how many Group Ids (talk-groups) do you want recorded?

See response to questions 6 and 7.

Question No. 11

Are the two wire audio feeds for each Group ID (talk-group) to be recorded located at Animal Control?

Yes, the recorder will need to bridge the twisted pair control lines for the station at Animal Control. Animal Control uses tone remote controllers to transmit and receive on a single radio down the hall from the main office of Animal Control.

Question No. 12

You mentioned that the radio audio is being provided over the tone control line from the IMC.

- a) **How many channels of radio audio are to be recorded for the purposes of the response?**
- b) **Since these are tone control lines, is there a need to notch any specific tones out of the audio prior to recording, or are you seeing clear audio there?**

The equipment Animal Control uses is not connected in any way to our IMC switch.

Animal Control only has one radio talk-group that needs to be recorded. They have a Rangr (mobile radio) Wall-Mount control station in a storage room about 20 ft. down the hall from Animal Control's main office. To control the Rangr Wall-Mount station, there are several GE RCN 1000 tone remote controls placed in the Animal Control Office. The tone remote controllers are connected to the Wall-Mount station via a twisted pair connection. The remote controller does use 2175 Hz signaling. As such, we have put line #48 into the specifications requiring a 2175 Hz filter.

Question No. 13

How many PTTs are on these channels stated above?

One

Question No. 14

What is the average talk time of the PTTs identified in question 13?

In the past week (168 hours) they have transmitted 5,024 times totaling 5 hours and 31 minutes of talk-time. That roughly translates into about 3.95 seconds per transmission which seems reasonable.

Question No. 15

It was identified that there are 164 calls per day on average. What is the average talk time for each of these calls?

On average, call-takers at Animal Control will spend from five to seven minutes on the line. There are sporadic occasions, such as bite-cases that may run closer to 20 minutes.

Question No. 16

Technical requirement No. 48 requires a notch filter to bypass the frequency of 2175 Hz from the recorded audio. We would like clarification on what we are recording with this feature. Is this to bypass radio squelching from the recorded signal? If so, don't your radio consoles have this feature built in?

Animal Control does not use a radio console per se. They are using a standard tone remote controller to control a radio located in an equipment room down the hall. Standard tone remote protocol is used to control the station. Part of that standard is what is called "hold tone" or "low-level guard tone". Either way, this tone is a 2175 Hz tone that is 30 db lower than the peak voice level which signals the radio equipment to remain transmitting. When this guard tone is no longer present the transmitter stops keying. The only place to bridge across for a logging recorder is across the twisted pair control lines which will have these tones present. Short of this, we may have to find Animal Control a radio to dedicate just to the Voice Logging recorder.

Question No. 17

Do you have a timeline for installation?

January 1, 2004 or shortly after.

Question No. 18

The Logging Recorder shall have the ability to receive and record radio channel and individual radio identification information as made available from the City's Ericsson "EDACS" 800 Mhz Trunked Radio System.

Yes.

Question No. 19

This information should be recorded to the call database for use in locating specific recorded voice traffic and reconstruction.

Yes.

Question No. 20

Are you looking for the specific radio channel the call came in on?

No, all calls come in on one line.

GENERAL ADDITIONAL INFORMATION

In terms of recording the radio channel, as stated, the City owns and uses an Ericsson (now M/A Comm) EDACS system. Animal Control presently only has one talk-group available for communications. Often the mistake is made in referring to this logical talk-group as being a "channel". Animal Control will presently only be recording this one talk-group's radio traffic. This audio is available via interfacing with the mobile radio that Animal Control uses for Dispatch. There is no need for the voice logging equipment to "understand" the underlying radio system and/or its RF channels.

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All other terms and conditions to remain unchanged.

Dated this 24th day of November, 2003.

Purchasing Department

Vince M. Mejer, CPPO, C.P.M.
Purchasing Agent